AMENDMENTS TO THE CLAIMS

This Listing of Claims will replace all prior versions and listings of claims in this application.

Listing of Claims:

1. (Currently Amended) A process for preparing polytetrahydrofuran, polytetrahydrofuran copolymer, diester or monoester by polymerizing tetrahydrofuran in the presence of at least one telogen and/or comonomer and of an acidic heterogeneous catalyst not encompassing heteropolyacids and based on activated sheet silicates or mixed metal oxides in a fluidized bed,
wherein the fluidized bed is operated at the fluidizing point with the expansion factor of the catalyst bed being less than or equal to 1.15 or wherein the fluidized bed is operated as an expanded fluidized bed with the expansion factor of the catalyst bed being from 1.01 to 4,
and wherein the reactor is operated in circulation and the ratio of circulation to feed is less than or equal to 200/l.

2. (Currently Amended) The process as claimed in claim 1, wherein the fluidized bed is operated at the fluidizing point with the expansion factor of the catalyst ~~bed is.~~bed being less than or equal to ~~1.15.~~1.10.

3. (Currently Amended) The process as claimed in claim 1, wherein the expanded fluidized bed is operated at the fluidizing point with the expansion factor of the catalyst bed is being from ~~1.01 to 4.~~1.05 to 2.

4. (Previously Presented) The process as claimed in claim 1, wherein the catalyst used comprises at least one oxide selected from the group consisting of SiO_2, TiO_2, and ZrO_2.

5. (Currently Amended) The process as claimed in claim 4, wherein the catalyst is based at least on one material selected from the group consisting of ~~on~~ acid-activated montmorillonite, Al_2O_3/SiO_2, ZrO_2/SiO_2, WO_x/TiO_2, and WO_x/ZrO_2.

6. (Currently Amended) The process as claimed in claim 1, wherein ~~the used~~the catalyst used has a pycnometric density of from 1.5 to 10 g/cm^3.

7. (Currently Amended) The process as claimed in claim 1, wherein ~~porosity~~ a porosity of the catalyst is from 0.05 to 5 cm^3/g.

8. (Previously Presented) The process as claimed in claim 1, wherein the individual catalyst particles have a volume of from 500 μm^3 to 5 cm^3.

9. (Previously Presented) The process as claimed in claim 1, wherein the bed density of the catalyst is from 250 to 2500 g/l.

10. (Previously Presented) The process as claimed in claim 1, wherein the reactor is flowed through from bottom to top.

11. (Currently Amended) The process as claimed in claim 1, ~~wherein the~~wherein the catalyst or portions of the catalyst volume are withdrawn from and/or fed to the polymerization reactor continuously, at regular intervals or batchwise, without the reactor being emptied and/or the polymerization reaction being interrupted for this purpose.

12. (Previously Presented) The process as claimed in claim 1, wherein tetrahydrofuran is polymerized in the presence of carboxylic anhydride to give polytretrahydrofuran or derivatives and copolymers thereof having molecular weights of from 250 to 10,000 dalton.

13. (Previously Presented) The process as claimed in claim 12, wherein the anhydride is acetic anhydride.

14. (Cancelled)

15. (Previously Presented) The process as claimed in claim 1, wherein the catalyst hourly space velocity is from 0.01 to 3.0 kg of THF/kg of catalyst per hour.

16. (Previously Presented) The process as claimed in claim 1, wherein the superficial velocity is from 0.1 to 200 m^3/m^2 per hour.

17. (Previously Presented) The process as claimed in claim 6, wherein the catalyst used has a pycnometric density of from 2 to 7 g/cm^3.

18. (Previously Presented) The process as claimed in claim 7, wherein the porosity of the catalyst is from 0.1 to 2 cm^3/g.

19. (Previously Presented) The process as claimed in claim 18, wherein the porosity of the catalyst is from 0.2 to 1.5 cm^3/g.